Arjun Menon

Process Engineer

arjun.menon@example.com +91 90XXX XXX82 Navi Mumbai, Maharashtra
linkedin.com/in/arjun-menon-example

PERSONAL STATEMENT

Process engineer with 7 years of experience in process design and plant optimisation for refinery, petrochemical and gas-processing units. Experienced in Aspen HYSYS simulation, PFD and P&ID development, equipment and line sizing, and HAZOP participation, across basic and detailed engineering for Indian and Middle East clients.

WORK EXPERIENCE

Senior Process Engineer · Konkan Process Engineering Consultants Pvt Ltd, Navi Mumbai — Sep 2021 – Present

- Lead process design for basic and detailed engineering packages, including heat and material balances, PFDs, P&IDs and equipment data sheets.
- Designed a debottlenecking scheme for a crude distillation unit that raised capacity by 8% with only 3 equipment changes.
- Sized 400+ lines, 35 pumps, 12 heat exchangers and relief valves for a gas sweetening project, with zero major client comments at IFC stage.
- Represented process discipline in HAZOP and SIL workshops and closed 120 action items with other disciplines.

Process Engineer, Technical Services · Periyar Petrochemicals Ltd, Kochi, Kerala — Jul 2018 – Aug 2021

- Monitored performance of an aromatics unit and prepared daily yield and energy reports for plant management.
- Cut furnace fuel consumption by 6% through excess-air control and convection-section cleaning, saving about ₹2.4 crore a year.
- Built and validated an Aspen HYSYS model of the column section used for troubleshooting and operator training.

EDUCATION

B.Tech in Chemical Engineering · Government Engineering College, Thrissur, Thrissur — 2014 – 2018
Grade: 8.3 CGPA

SKILLS

Aspen HYSYS · Aspen Plus · HTRI · PFD and P&ID development · Equipment sizing · Line and relief valve sizing · HAZOP · API and ASME standards

CORE SKILLS

- Process design
- Plant optimisation
- Energy efficiency
- Interdisciplinary coordination
- Technical reporting

CERTIFICATIONS

NPTEL: Process Design of Chemical Plants · NPTEL — Apr 2019

LANGUAGES

English · Professional · Malayalam · Native · Hindi · Fluent

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